

(19) World Intellectual Property Organization  
International Bureau



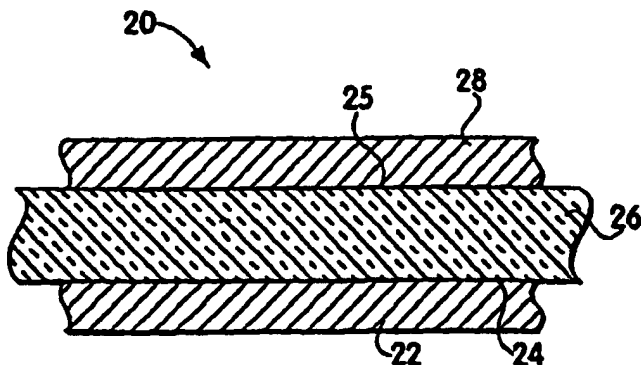
(43) International Publication Date  
30 November 2000 (30.11.2000)

PCT

(10) International Publication Number  
**WO 00/71634 A1**

- (51) International Patent Classification<sup>7</sup>: C09J 7/02, B32B 27/32, 25/00
- (21) International Application Number: PCT/US00/13739
- (22) International Filing Date: 19 May 2000 (19.05.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
09/316,590 21 May 1999 (21.05.1999) US
- (71) Applicant (*for all designated States except US*): TYCO INTERNATIONAL (US), INC. [US/US]; 15 Hampshire Street, Mansfield, MA 02048 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): MAMISH, Abboud, L. [US/US]; Six Tamarack Road, Natick, MA 01760 (US). GOLDSMITH, Paul, S. [US/US]; 20 Snake Brook Road, Wayland, MA 01778 (US). SERRA, Jerry, M. [US/US]; 11 Clydesdale Road, Chelmsford, MA 01824 (US).
- (74) Agents: MCDERMOTT, Peter, D. et al.; Banner & Witcoff, Ltd., 28th floor, 28 State Street, Boston, MA 02109 (US).
- (81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— *With international search report.*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: NON-FOGGING PRESSURE SENSITIVE ADHESIVE FILM MATERIAL



(57) Abstract: Flexible, conformable, pressure sensitive adhesive film material has a plastic film and a compatible pressure sensitive adhesive layer on at least a first surface of the plastic film. The plastic film is formulated of plastic film polymers and optional additives. The plastic film polymers include, at least, thermoplastic ethylene/styrene interpolymer in major part, and a temperature modifier polymer, which increases the thermal resistance of the plastic film. The pressure sensitive adhesive layer is compatible with the plastic film, such as acrylic-based adhesive and shear-coated rubber-based adhesive. The PSA film material can be harness tape for use in wire harness constructions and

can provide advantageously low fogging and good recyclability, along with performance characteristics suitable to stringent harness tape and other end-use applications. In certain embodiments, a plastic barrier layer is coextruded with the plastic film, and a surface of the plastic film opposite the adhesive layer.